

## SECTION 09900

### PAINTING

\*\*\*\*\*  
**Edit to suit job requirements.**  
\*\*\*\*\*

#### PART 1 GENERAL

##### 1.1 WORK INCLUDED

- A. Surface preparation.
- B. Application of paint finishes.

##### 1.2 DEFINITIONS

- A. Conform to ANSI/ASTM D16 for definitions of terms used in this Sections.

##### 1.3 SUBMITTALS

- A. Submit the following in accordance with the requirements of Section 01300:
  - 1. Catalog data and Material Safety Data Sheets on all finishing products including name of proposed paint manufacturer for approval and to facilitate selection of colors by LANL.
  - 2. Manufacturer's installation (application) instruction.

##### 1.4 REGULATORY REQUIREMENTS

- A. Materials: Minimum Class B per NFPA 101.

##### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to site in sealed and labeled containers; inspect to verify acceptance.
- B. For container labeling, included manufacturer's name type of paint, brand name, brand code, coverage, surface preparation, drying time, clean-up, color designation, and instructions for mixing and reducing.
- C. Store paint materials at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in well ventilated area, unless required otherwise by manufacturer's instructions.
- D. Take precautionary measures to prevent fire hazards and spontaneous combustion.

##### 1.6 ENVIRONMENTAL REQUIREMENTS

- A. Provide continuous ventilation and heating facilities to maintain surface and ambient temperatures above 45 degrees F for 24 hours before, during, and 48 hours after application of finishes, unless required otherwise by manufacturer's instructions.
- B. Do not apply exterior coatings during rain or snow, or when relative humidity is above 50 percent, unless otherwise by manufacturer's instructions.
- C. Do not apply latex paints when temperatures are below 45 degrees F for interiors and 50 degrees F for exterior, unless required otherwise by manufacturer's instructions.

## 1.7 EXTRA STOCK

- A. Provide [1] extra gallon of each type, color, and surface texture to LANL.
- B. Label each container with color, texture, room locations, in addition to the manufacturer's label.

## PART 2 PRODUCTS

### 2.1 MATERIALS

- A. Provide coatings of ready mixed type, except field catalyzed coatings. Process pigments to a soft consistency, capable of being readily and uniformly dispersed to a homogeneous coating.
- B. Provide coatings conforming to the Federal Specifications indicated in paragraphs [3.7 & 3.8] of this Section.

### 2.2 MANUFACTURERS

- A. Wellborn Paint Company.
- B. Devoe and Raynolds Co. (Devoe).
- C. Glidden Coating sand Resins, Division of SCM Corporation (Glidden).
- D. Benjamin Moor and Co. (Moore).
- E. PPG Industries, Pittsburgh Paints (Pittsburgh).
- F. Pratt and Lambert (P&L).

## PART 3 EXECUTION

### 3.1 INSPECTION

- A. Verify that surfaces and substrate conditions are ready to receive work as instructed by the product manufacturer before applying paint finish.
- B. Examine surfaces scheduled to be finished prior to commencement of work. Report to Contract Administrator any condition that may potentially affect proper application.
- C. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces is below the manufacturer's recommendation.

### 3.2 PREPARATION

- A. Remove grease, oil, and other contaminants as recommended by manufacturer.
- B. Correct minor defects and clean surfaces which affect work of this Section.
- C. Remove mildew from impervious surfaces by scrubbing with solution of tri-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
- D. Fill minor defects in gypsum surfaces with Latex. Spot-prime defects after repair.

- E. Remove surface contamination and oils from galvanized surfaces and wash with solvent.
- F. Remove grease, scale, dirt, and rust from uncoated steel and iron surfaces. Where heavy coatings and scale are evident, remove by wire brushing and sandblasting; clean by washing with solvent. Apply a treatment of phosphoric acid solution, ensuring weld joints, bolts, and nuts are similarly cleaned. Spot prime paint after repairs.
- G. Sand and scrape to remove loose primer and rust from shop primed steel and iron surfaces. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces.
- H. Seal top and bottom of field painted doors with primer.

### 3.3 PROTECTION

- A. Protect elements surrounding the work of this Section from damage or disfiguration.
- B. Repair damage to other surfaces caused by work of this Section.
- C. Furnish drop cloths, shields, and protective methods to prevent spray or droppings from disfiguring other surfaces.
- D. Remove empty paint containers from site.

### 3.4 APPLICATION

- A. Apply products in accordance with manufacturer's instructions.
- B. Apply each coat to uniform finish.
- C. Apply each coat of paint slightly darker than preceding coat unless otherwise approved.
- D. Sand lightly between coats to achieve required finish.
- E. Allow applied coat to dry before next coat is applied.

### 3.5 FINISHING MECHANICAL AND ELECTRICAL MATERIALS

- A. Paint shop primed equipment.
- B. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.
- C. Prime and paint insulated and exposed pipes, conduit, boxes, insulated and exposed ducts, hangers, brackets, collars and supports, except where items are prefinished.
- D. Paint interior surfaces of air ducts, and convactor and baseboard heating cabinets that are visible through grilles and louvers and one coat of flat black paint, to limit of sight line. Paint dampers exposed behind louvers, grilles, and convactor and baseboard cabinets to match face panels.
- E. Paint conduit exposed in finished areas and conduit exposed at exterior.
- F. Paint both sides and edges of plywood backboards for electrical and telephone equipment before installing equipment.

### 3.6 CLEANING

- A. As work proceeds, promptly remove paint where spilled, splashed, or spattered.

- B. During progress of work, cloths, and material which may constitute a fire hazard, place in metal containers and remove daily from site.
- C. Collect cotton waste, cloths, and material which may constitute a fire hazard, place in closed metal containers and remove daily from site.

### 3.7 SCHEDULE - EXTERIOR SURFACES

- A. Steel - Unprimed
  - 1. Apply 1 coat of anti-corrosion primer conforming to FS TT-P-641.
  - 2. Apply 2 coats of alkyd enamel, gloss, conforming to FS TT-E-489G.
- B. Steel - Shop Primed
  - 1. Match shop primer to touch up.
  - 2. Apply 2 coats of alkyd enamel, gloss, conforming to FS TT-E-489G.
- C. Steel - Galvanized
  - 1. Apply 1 coat of anti-corrosion primer conforming to FS TT-P-641.
  - 2. Apply 2 coats of alkyd enamel, gloss, conforming to FS TT-E-489G.
- D. Concrete, Concrete Block
  - 1. Apply 1 coat of vinyl acrylic latex block filler conforming to TT-F-1098D.
  - 2. Apply 2 coats of acrylic latex, semi-gloss, conforming to MIL-P-28578A.

### 3.8 INTERIOR SURFACES

- A. Concrete Floor

Seal floors with Euro Floor Coat, Clear Bond, or approved equal sealer.
- B. Steel - Unprimed
  - 1. Apply 1 coat of primer conforming to FS TT-P-641.
  - 2. Apply 2 coats of acrylic latex enamel, semi-gloss, conforming to FS TT-P-1511B.
- C. Steel - Shop Primed
  - 1. Match shop primer to touch up.
  - 2. Apply 2 coats of acrylic latex enamel, semi-gloss, conforming to FS TT-P-1511B.
- D. Steel - Galvanized
  - 1. Touch-up with original primer conforming to FS TT-P-641.
  - 2. Apply 2 coats of acrylic latex enamel, semi-gloss, conforming to FS TT-P-1511B.
- E. Gypsum Board, Walls
  - 1. Apply 1 coat of latex wall primer conforming to FS TT-P-650C.

2. Apply 2 coats of acrylic latex conforming to [MIL-P-28578A, gloss] [FS TT-P-1511B, semi-gloss] [FS TT-P-29, flat].
- F. Gypsum Board, Ceilings
1. Apply 1 coat of latex wall primer conforming to FS TT-P-650C.
  2. Apply 2 coats of acrylic latex, flat, conforming to FS TT-P-29K.
- G. Plaster
1. Apply 1 coat of latex wall primer conforming to FS-TT-P-650C.
  2. Apply 2 coats of acrylic latex conforming to [MIL-P-28578A, gloss] [FS TT-P-1511B, semi-gloss] [FS TT-P-29, flat].
- H. Concrete, Concrete Block, Wet Areas
1. Apply 1 coat of hi-solid block filler, FS TT-F-1098D.
  2. Apply 2 coats of water-based catalyzed epoxy.
- I. Transparent Finish Woodwork
1. Apply 1 coat of transparent water-base stain conforming to TT-S-711C.
  2. Apply 1 coat of sanding sealer.
  3. Apply 2 coats of stain polyurethane conforming to FS TT-C-1951.
- J. Special room finishes.
1. Refer to Section 09815, High Build Glazed Coating.

END OF SECTION